

# CURRICULUM VITAE

## PERSONAL DETAIL



## PROF. DR. TAN KAY SIN

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## ACADEMIC QUALIFICATION

(Qualification), (Institution).

FAMM, ACADEMIC OF MEDICINE OF MALAYSIA

FRCP(Edin)2007, ROYAL COLLEGES OF PHYSICIANS OF THE UNITED KINGDOM

Cert. Neurosonology(American Society of Neuroimaging), American Society of Neuroimaging

MRCP(UK)1997, ROYAL COLLEGE OF PHYSICIANS, UNITED KINGDOM

Postgraduate Medical School(1996), UNIVERSITY OF LONDON, UK

MBBS(University of Melbourne)1993, UNIVERSITY OF MELBOURNE, AUSTRALIA

## PROFESSIONAL

(Organisation), (Role), (Year), (Level).

General Medical Council(United Kingdom), Member, 1995, (International)

American Academy of Neurology, Member, 1999, (International)

ASIAN STROKE ADVISORY PANEL, Panel, 2001, (International)

Malaysian Society of Neurosciences, Webmaster, 2004, (National)

NATIONAL COMMITTEE FOR CLINICAL PRACTICE GUIDELINES IN STROKE , Panel Member, 2005 to 2007, (National)

Malaysian Society of Neuroscience, Honorary Secretary, 2005 to 2008, (National)
National Specialist Register, Malaysia. (Neurology & Internal Medicine), Member, 2007, (National)
Malaysian Society of Neurosciences , President, 2008, (National)
European Stroke Organization , Member, 2008, (National)
World Federation of Neurology , Malaysian Representative, 2008 to 2010, (International)
Malaysian Society of Neurosciences, President, 2008 to 2010, (International)
ASEAN NEUROLOGICAL ASSOCIATION, Council Member, 2008, (International)
Malaysian Society of Neurosciences, Treasurer, 2010, (National)
Malaysian Society of Neurosciences , Honorary Treasurer, 2010, (National)
Malaysian Guidelines for Ischaemic Stroke, Active Member, 2012 to 2013, (National)
Asia Pacific Stroke Conferences 2015-7, Scientific Committee, 2015 to 2022, (International)
Asia Pacific Stroke Organization , Executive Committee Member, 2015 to 2017, (International)
Asia Pacific Stroke Organization, Academic Chairman, 2015 to 2017, (International)
American Society of Neuroimaging, Member, , (International)

#### ADMINISTRATIVE DUTIES

(Role), (Level), (Start date),(End Date).

Member, Curriculum Review Committee, Faculty, 01/01/2012
Faculty of Medicine, Phase 3a MBBS Overall Coordinator, Faculty, 01/09/2009 to 01/09/2013 (Overall Coordinator for Phase 3a MBBS program)
Quality Manager, Faculty, 01/01/2002 to 01/09/2002 (Audit & Pensijilan ISO )

#### AREAS OF EXPERTISE

(Area).

General Internal Medicine, Undergraduate Education
Neurology (Neurology, Stroke, Transcranial Doppler, Clinical Trials, Molecular Biology of Cerebrovascular Ischaemia)

#### RECENT SELECTED PUBLICATIONS

(Publication).

#### Chapter in Book

<b>2018</b>
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**2017**

KS Tan, E.S Bitanga. Stroke management for Asian patients. NC Suwanwela,JC Navarro (Eds),Risk factor management for primary and secondary stroke prevention(pp 91-97). John Wiley & sons, Australia.

ML Sharon Tai, Azmi Abdul Kadir Khairul, KS Tan, CT Tan. An unusual case of basilar artery infarct. Puzzling Cases in Stroke. Manmohan Mehndiratta. True Life Media Publishers (A Division of Kothari Medical) p32-40

**2016**

Kay Sin Tan. Coagulation & Haematological Disorders in Stroke. International Textbook of Neurology. 2nd Edition. Editors.Lisak RP,Truong D. Blackwell

Lee TH, Tan KS. Stroke in the Young:Asian Perspectives. Editors: J Navarro & N Suwanwela. Stroke in Asia. Asian Stroke Advisory Panel. Publisher: John Wiley & Sons

**2009**

Tan KS.Coagulation in Stroke.International Textbook of Neurology p68-72. Editors Lisak RP, Truong D, Carroll W, Roongroj B. (Editors) Wiley-Blackwell Publishers

**2008**

R Gan, NV Ramani KS Tan. Antithrombotics,antiplatelet & anticoagulation.The Stroke Clinician's Handbook.A Practical Guide to the Care of Stroke Patients.R Gan, NV Ramani(editors) World Scientific Press 2008;213-216

**2006**

Tan KS. Management of Ischaemic Stroke. Management Aspects of Acute Care. Chan YK, Ng KP Editors. University of Malaya Press 2006; p 251-262

**2002**

Tan KS,Goh KJ,Tan CT. A Young Woman with Confusional State, Seizures and a Facial Rash. Kay R(Editor) Casebook of Neurology Lippincott-Williams-Wilkins 2002;54-57

**Article in Academic Journals**

**2019**

Mei-Ling Sharon TAI, Khean Jin GOH, Khairul Azmi Abdul KADIR, Mohd Idzwan ZAKARI, Jun Fai YAP MBBS, Kay Sin TAN. PREDICTORS OF FUNCTIONAL OUTCOME IN PATIENTS WITH STROKE THROMBOLYSIS IN A TERTIARY HOSPITAL IN MALAYSIA. Singapore Medical Journal 2019 May;60(5):236-240. (ISI-Indexed)


**2018**

Merel S Ekker, Esther M Boot, AB Singhal, Kay Sin Tan, Stephanie Debette, Anil M Tuladhar, Frank-Erik de Leeuw. Epidemiology, aetiology, and management of ischaemic stroke in young adults. Lancet Neurology. 2018; 17:790-801 (ISI-Indexed)

## 2017

M Seera, C P Lim, KS Tan, WS Lim. Classification of transcranial Doppler signals using individual and ensemble recurrent neural networks. *Neurocomputing* (2017) 1-8 (*ISI-Indexed*)

Narayanaswamy Venketasubramanian, Craig Anderson, Man Mohan Mehndiratta, Ruey- Tay Lin, Kay Sin Tan, Chen-Ya Huang. Organizational Update: Asia Pacific Stroke Organisation. *Stroke*. 0-0; 2017 (*ISI-Indexed*)

Tan JR, Tan KS, Yong FL, Armugam A, Wang CW, Jeyaseelan K, et al. (2017) MicroRNAs regulating cluster of differentiation 46 (CD46) in cardioembolic and non-cardioembolic stroke. *PLoS ONE* 12(2): e0172131. doi:10.1371/journal.pone.0172131 (*ISI-Indexed*)  (public\_view.php?type=publication&row=NjA2NDI%3D)

## 2016

Nijasri C Suwanwela, Nipon Pongvarin, the Asian Stroke Advisory Panel. Stroke Burden and stroke care system in Asia. *Neurol India* 2016;64:46-51 (*ISI-Indexed*)

## 2015

FL Yong, CW Wang, KS Tan. MicroRNA expression profile of a Malaysian Bajau family with familial mitochondrial neurogastrointestinal encephalomyopathy. *Genet. Mol. Res.* 14 (4): 13172-13183 (2015) (*ISI-Indexed*)

MLS Tai, KJ Goh, KAA Kadir, Mohd Idzwan Zakaria, JF Yap, CT Tan, KS Tan. Functional Status in patients with stroke thrombolysis in a tertiary hospital in Malaysia. *Journal of Neurological Sciences* 2015 (in press) (*ISI-Indexed*)


## 2014

Chee KH, Tan KS. Impact of atrial fibrillation among stroke patients in a Malaysian teaching hospital. *Med J Malaysia* Vol 69 No.3 June 2014. (*SCOPUS-Indexed*)

KS Tan, JC Navarro, KS Wong et. al. Clinical profile, risk factors and aetiology of young ischaemic stroke patients in Asia: A prospective, multicentre, observational, hospital-based study in eight cities. *Neurology Asia* 2014;19(2):117-127 (*ISI-Indexed*)

Sugunavathi S, JR Tan, KS Tan, D A DeSilva, S Tavintharan, FP Woon, CW Wang, FL Yong, D Karolina, P Kaur, FJ Liu, KY Lim, A Arumugam, K Jeyaseelan. Circulating MicroRNAs as Biomarkers of Acute Stroke. *Int.J.Mol.Sci.* 2014, 15, 1-16; doi:10.3390/ijms150x000x (*ISI-Indexed*)

## 2013

Alexander Y. Lau, Yudong Zhao, Christopher Chen, Thomas W. Leung, Jianhui Fu, Yining Huang, Nijasri C. Suwanwela, Zhao Han, Kay Sin Tan, Disya Ratanakorn, Hugh S. Markus and Ka Sing Wong, for the CLAIR study investigators. Dual antiplatelets reduce microembolic signals in patients with TIA and minor stroke: subgroup analysis of CLAIR study. *International Journal of Stroke* (in press) (*ISI-Indexed*)  (public\_view.php?type=publication&row=MzQ0MTk%3D)

Jun Rong Tan, Kay Sin Tan, Yu Xuan Koo, Fung Lin Yong, Chee Woon Wang, Arunmozhiarasu Armugam and Kandiah Jeyaseelan. Blood microRNAs in Low or No Risk Ischemic Stroke Patients. *Int. J. Mol. Sci.* 2013, 14, 2072-2084; doi:10.3390/ijms14012072 (*ISI/SCOPUS Indexed Publication*)

## 2012

Zaherah Mohamed Shah F, Suraiya HS, Poi PJ, Tan KS, Lai PS, Ramakrishnan K, Mahadeva S. Long-term nasogastric tube feeding in elderly stroke patients - an assessment of nutritional adequacy and attitudes to gastrostomy feeding in asians. *J Nutr Health Aging* 2012;16(8):701-6 (*ISI-Indexed*)

KS Tan, HG Lee, LH Lian, YS Lu, Chen BC, CW Wang, J Menon. Mitochondrial neurogastrointestinal encephalomyopathy(MNGIE) in a Malaysian patient with a novel mutation in thymidine phosphorylase gene. *Neurology Asia*. 2012;17(2):163-168 (*ISI-Indexed*)

CS Gan, CW Wang, KS Tan. Circulatory microRNA-145 expression is increased in cerebral ischemia. *Genetics and Molecular Research(GMR)*(1):147-152(2012) (*ISI-Indexed*)

## 2011

Mohamed EHM, Tan KS, Mohd Ali J, Mohamed Z. TT genotype of the methylenetetrahydrofolate reductase C677T polymorphism is an important determinant for homocysteine levels in multi-ethnic Malaysian ischaemic stroke patients. *ANNALS OF THE ACADEMY OF MEDICINE, SINGAPORE* 40(4):186-91 APRIL 2011 Department of Pharmacology, University of Malaya, Kuala Lumpur, Malaysia. Impact Factor: 1.22 (*ISI-Indexed*)

Tan KS, Tan CT. Ischaemic stroke in young Asian women: inadequate investigations and geographical bias. *Cerebrovasc Dis* 2011;31(4):416, E Pub 2011 Feb 22 (*ISI-Indexed*)

## 2010

Tan KS, Tan CT, Churilov L; et al. Risk factors and aetiology of cerebral infarction in young adults: a comparative study between Malaysia and Australia. *International Journal of Stroke*. 2010;15(5):428-30 (*ISI/SCOPUS Indexed Publication*)

CP Lim, SL Wang, KS Tan, J Navarro, LC Jain. Use of circle segments visualization for neural network feature selection and analysis. *Neurocomputing* 73(2010) 613-621 (*ISI-Indexed*)

Wong KSL, Chen C, Fu JH, Chang HM, Suwanwela NC, Huang YN, Han Z, Tan KS, Ratanakorn D et. al. Clopidogrel plus aspirin versus aspirin alone for reducing embolization in patients with acute symptomatic cerebral or carotid stenosis (CLAIR study): a randomised, open label, blinded-end point trial. *LANCET NEUROLOGY* 2010 May;9 (5):489-497 (*ISI/SCOPUS Indexed Publication*)

Tan KS, Tan CT. Post Stroke Venous Thromboembolism in Asia. (Letter) *International Journal of Stroke*. 2010 Apr;5(2):131 (*ISI/SCOPUS Indexed Publication*)

A Quteishat, CP Lim, KS Tan. A modified fuzzy min-max neural network with a genetic-algorithm-based rule extractor for pattern classification. *IEEE Transactions on Systems, Man, and Cybernetics-Part A: Systems and Humans*. Vol 30. May 2010:641-650 (*ISI-Indexed*)

Tan KS, Tan CT, Churilov L, MacKay M, Donnan G. Ischaemic Stroke in Young Adults: A comparative study between Malaysia and Australia. *Neurology Asia* 2010;15 (1):1-9 (*ISI/SCOPUS Indexed Publication*)

## 2009

KS Tan, A Armugam, S Sepramaniam et. al. Expression Profile of MicroRNAs in Young Stroke Patients. *Plos One Biology* November 2009; Volume 4; Issue 11 e7689 (*ISI/SCOPUS Indexed Publication*)

SC Tan, CP Lim, KS Tan, JC Navarro. An evolutionary artificial neural network for medical pattern classification. *ICONIP 2009 Part II LCNS 5864*, pp 475- 482, 2009. Springer-Verlag, Berlin (*ISI-Indexed*)

## 2008

Tan KS, Tan CT. Venous thromboembolism in ischaemic stroke in Asia. *Neurology Asia*. 2008;13:95-101 (*ISI-Indexed*)

J Navarro, E Bitanga, KS Tan et al. Complications of acute stroke: A study in ten Asian countries. *Neurology Asia* 2008;13:33-39 (*ISI/SCOPUS Indexed Publication*)

## 2007

Sia SF, Tan KS, V Waran. Primary intracerebral haemorrhage in Malaysia: In hospital mortality and outcome in patients from a hospital based registry. *Med J Malaysia* 2007;62(4): 275-279 (*ISI/SCOPUS Indexed Publication*)

#### **2006**

Tan KS Wong KS, Venketasubramanian N. Setting priorities in Asian Stroke Research. *Neurology Asia* 2006;11:5-11 (*ISI-Indexed*)

#### **2005**

Tan KS, Tan CT, Wong KS. Application of transcranial Doppler ultrasound in atherosclerotic ischaemic stroke: An Asian perspective. *Neurology Asia*. June 2005;1-5 (*ISI-Indexed*)

#### **2004**

Teo HK, Lee SP, Tan KS. Towards a configurable tool for developing web-based courseware. *WSEAS Transactions on Computers*. Nov 2004 Vol 3:1684-88 (*ISI-Indexed*)

#### **2003**

Amudha K, Chee KH, Tan KS, Tan CT, Lang CC. Prevalence of peripheral artery disease in urban high risk Malaysian patients. *International Journal of Clinical Practice*. June 2003 Vol 57(5):369-372 (*ISI-Indexed*)

#### **2002**

Sulaiman AH, Zainal N, Tan KS, Tan CT. Prevalence and associations of post stroke depression. *Neurol J South East Asia*. Dec 2002(7):71-75 (*SCOPUS-Indexed*)

Tan CT, Goh KJ, Wong KT, Ahmad Sarji S, Chua KB, Chew NK, Murugasu P, Loh YL, Chong HT, Tan KS, Thayaparan T, Jusoh MR, Kumar S. Relapsed and late-onset Nipah encephalitis. *Annals of Neurol*. 2002(51):703-8 (*ISI-Indexed*)

#### **2001**

Tan CT, Tan KS Nosocomial transmissibility of Nipah virus *J Infect Dis* Nov 2001 15:184 (*ISI-Indexed*)

#### **2000**

Ramasundram V, Tan CT, Chua KB, Chong HT, Goh KJ, Chew NK, Tan KS, Tarmizi Thayaparan, SR Kunjapan, V.Petharunam, Loh YL, Ksiazek TG, Lam SK Kinetics of IgM and IgG seroconversion in Nipah virus infection *Neurol J South East Asia* June 2000;5:23-27 (*SCOPUS-Indexed*)

KB Chua, Lam SK, Tan CT, Goh KJ, Chew NK, Tan KS, Kamarulzaman A High mortality is associated with presence of Nipah virus in cerebrospinal fluid. *Ann. Neurol* 2000 Nov;48(5): 802-5 (*ISI/SCOPUS Indexed Publication*)

Tan KS, Sarji SA, Tan CT, Abdullah BJJ, Chong HT, Thayaparan T, Koh CN. Patients with asymptomatic Nipah virus infection may have abnormal cerebral MR imaging. *Neurol J South East Asia*. Dec 2000;(5):69-73 (*Non-ISI/Non-SCOPUS*)

KS Tan, S Ahmad Sarji, CT Tan, BJJ Abdullah, HT Chong, T Thayaparan, CN Koh. Patients with asymptomatic Nipah virus infection may have abnormal cerebral MR imaging. *Neurol J Southeast Asia* 2000;5:69-73. (*Non-ISI/Non-SCOPUS*)

**1999**

Chua CJ , Tan KS , Ramli N , Shamala D, Tan CT Scrub Typhus With Central Nervous System Manifestation: A Case Report with CT and MR Imaging Features *Neurol J South East Asia* ; June 1999 ; 4: 53-57 (*SCOPUS-Indexed*)

Tan KS, Tan CT, Goh KJ Epidemiological aspects of Nipah Encephalitis. *Neurol J Southeast Asia.*; Dec 1999;4:77-81 (*SCOPUS-Indexed*)


## Proceeding


**2015**

Tan JR, Yong FL, Wang CW, Arumugam A, Jeyaseelan K, Tan KS. MicroRNAs regulating CD46 and their relevance in stroke. *Cerebrovasc Dis* 2015;40(suppl 1):1-76 DOI: 10.1159/000441068 (*ISI-Indexed*)

**2013**

Ko TY Andy, Ang CC, Chee KH, Tai MLS, K Rishi, Tan KS. Atrial fibrillation: A Major contributor to Stroke Severity and poorer outcome in acute ischaemic stroke patients in Malaysia. *Cerebrovascular Dis*;36(suppl 1):p75 (*ISI-Indexed*)

Thrombolysis and Endovascular Therapy in a tertiary hospital in Malaysia. Tai MLS, Azmi K, Janjua NS, Kuppusamy R, Abdullah S, Goh KJ, Zakaria MI, Hazman MN, Tan CY, Tan AH, Ibrahim KA, Chong GM, Tan CT, Tan KS. *Cerebrovascular Dis* 2013;36(suppl 1):1-94 (*ISI-Indexed*)  (public\_view.php?type=publication&row=Mz11MjM%3D)

MLS Tai, CT Tan, R Kuppusamy, KS Tan. Cerebral Venous thrombosis in Malaysia: A case series from a major tertiary hospital in Kuala Lumpur. *Cerebrovascular Dis*;36(suppl 1):1-94 (*ISI-Indexed*)  (public\_view.php?type=publication&row=Mz11MjM%3D)

**2010**

Gan CS, Wang CW, Tan KS. MicroRNA-145 Expression in Ischemic Young Stroke Patients: A Potential Biomarker for cardioembolic & Atherothrombotic Ischaemic Strokes (*Non-ISI/Non-SCOPUS*)

MicroRNAs as biomarkers in stroke pathogenesis. K Jeyaseelan, KY Lim, A. Arumugam, JR Tan, KS Tan, CW Wang, PTH Wong. *EFNS European Journal of Neurology* 17(Suppl 3),410 (*ISI/SCOPUS Indexed Publication*)

Gan CS, Wang CW, Tan KS. MicroRNAs Expression in Ischaemic Young Stroke Patients: What are they trying to tell us? *Neuroscience 2010, Annual Scientific Meeting of the Malaysian Society of Neurosciences Conference Proceedings May 21-23 2010, Kota Kinabalu, Sabah, Malaysia*

**2005**

EHM Mohamed, KS Tan, Z Mohamed, JM Ali, CT Tan C677T Polymorphism of Methylenetetrahydrofolate reductase gene and increased plasma homocysteine concentration may be an independent risk factor for ischaemic stroke in multi-ethnic Malaysian population. *First North South Conference & Workshops on Pharmacogenetics. 12-17 December 2005*

**2003**

Reynolds CR, Tan KS, Lanning K, Tegeler CH. Posterior cerebral artery hemodynamics in a double blind, crossover, placebo controlled study of ginkgo biloba extract taken by healthy young adults. *Journal of Neuroimaging* 2003; Vol 13(2):176

**2002**

Goh KJ, Chew NK, Tan KS, Chong HT, Vimalan R, Tan CT. Carpal Tunnel Syndrome: Correlation between Clinical Symptoms and Severity and Electrophysiological Findings. *Journal of the Neurological Sciences* 2002; 199 (Suppl 1): S42 (*ISI-Cited Publication*)

## 2001

Ramasundrum V, Tan KS, Tan CT. Random total homocysteine sampling in patients with enzyme inducing antiepileptic drugs. ASEAN Neurological Association Congress, Kuala Lumpur 2001 (*SCOPUS-Indexed*)

Tan KS, Tan CT, Zamri MR, Madihi MEM, Abdul Hamid SA, Tai LY. Survey of cultural and public perceptions on the precipitants and relieving measures in headaches within the Klang Valley, Malaysia. *Neurol J South East Asia* June 2001;6:65

Chong HT, Tan CT, Goh KJ, Tan KS, Chew NK, Vimalan R, Loh YL, Thayaparan T. Diabetes Mellitus and Acute Nipah encephalitis. *Neurol J South East Asia* June 2001;6:45

Tan KS, Tan CT, Goh KJ. Persistently Low CSF glucose in a case of cured cryptococcal meningitis. *Neurol J South East Asia* June 2001;6:52

Tan KS, Amudha K, Tan CT, Lang CC. Prevalence of Peripheral Vascular Disease in patients with Ischaemic Strokes. *Hong Kong Medical Journal*; Dec 2001;7(4):30

Tan KS, Tan CT, Lee TC. Hyperhomocysteinemia in Ischaemic Stroke from a multi-racial population in Malaysia. *Hong Kong Medical Journal*; Dec 2001;7(4):19- 20

## Mass Media(Newspaper, Radio, Tv, Popular Magazine)

## 2010

"Different Strokes!" Healthy Aging Section. *The Star* 4 July 2010

## 2009

Uncommon Causes of Stroke. *The Star*. Jan 25 2009

## AREAS OF RESEARCH

(Project title), (Role), (From)-(Until), (Level), (Source).

The Role Of Rnf 213 As A Susceptibility Gene In The Pathogenesis Of Moyamoya Diseases And Intracranial Atherosclerosis Across The Spectrum Of Ischaemic Stroke Patients In Young Adults And Children In Malaysia, Principal Investigator(PI), 2018 - 2021, *Private Funding*, (National)

Multimodal Assessment Of Cerebral Autoregulation And Potential Application Of Pharmacological Agents In Improving Cerebral Autoregulation, Consultant, 2016 - 2019, *Fundamental Research Grant Scheme (FRGS)*, (National)

Micromas And Acute Ischaemic Stroke., Principal Investigator(PI), 2013 - 2016, *High Impact Research - Ministry of Education (HIR-MOE) Cycle 3*, (National)

Transcranial ultrasound in APL positive patients., Co-Investigator, 2013 - 2014, *BKP*, (National)

International TIA(transient ischaemic attack) Registry, Principal Investigator(PI), 2011, *CIC Neurovascular Fund*, (International)

Role Of MicroRNA As A Novel Biomarker For Clinical Diagnosis, Short And Long Term Prognosis, Acute Therapy And Augmentation Of Recovery In Ischaemic Stroke, Principal Investigator(PI), 2011 - 2016, *High Impact Research - Ministry of Education (HIR-MOE) Cycle 1*, (National)

An open-label extension of the double-blind, placebo-controlled, dose- escalation, parallel-group studies to evaluate the efficacy and safety E2007 (perampanel) given as adjunctive therapy in subjects with refractory partial seizures, Co-Investigator, 2010, *Eisai Pharmaceuticals*, (International)

Role of MicroRNA in acute cerebrovascular ischaemia: Further molecular studies, Principal Investigator(PI), 2010 - 2012, *Fundamental Research Grant Scheme (FRGS)*, (National)

A Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multicenter Study to evaluate the efficacy, safety and tolerability of RWJ-333369 as adjunctive therapy in subjects with partial onset seizures followed by an open-label extension Study, Co-Investigator, 2009, *Janssen-Cilag*, (International)



A STUDY OF MICRO RNA PROFILES IN ISCHEMIC STROKE AND ITS RISK FACTOR IN DEVELOPMENT OF THE NOVEL BIOMARKER OF YOUNG ISCHEMIC STROKE PATIENTS, , 2009 - 2010, <i>Postgraduate Research Grant (PPP) - Research</i> , (National)
PERFORM:Prevention of cerebrovascular and cardiovascular events of ischaemic origin with terutroban in patents with a history of stroke or transient ischaemic attack. International randomized double blind placebo controlled study study comparing terutroban versus aspirin orally, Principal Investigator(PI), 2006 - 2010, <i>Servier Pharmaceuticals, France</i> , (International)
PROFESS: Prevention Regimen for Effectively avoiding Second Stroke 2 X 2 factorial study comparing clopidogrel against aspirin-dipyridamole combination and between telmisartan against placebo., Principal Investigator(PI), 2004 - 2007, <i>Boehringer-Ingelheim, Germany</i> , (International)
A Multi-centred international Asian Study on Stroke Complications, Principal Investigator(PI), 2003 - 2003, <i>UMMC Clinical Investigation Centre Cerebrovascular Research Fund</i> , (National)
Genetic polymorphisms study of methylenetetrahydrofolate reductase(MTHFR) & renin angiotensin system(RAS) in a multi-ethnic ischaemic stroke population, Principal Investigator(PI), 2003 - 2005, <i>Fundamental Research Grant Scheme (FRGS)</i> , (National)
SAINT- NXY 006;A double blind,acute placebo controlled, parallel multi-centre phase IIb/III study of intravenous NXY-059 in acute ischemic stroke., Principal Investigator(PI), 2003 - 2005, <i>Astra-Zeneca, Sweden</i> , (International)
Clopidogrel for high atherothrombotic risk & ischaemic stabilization, management and avoidance (CHARISMA), Principal Investigator(PI), 2003 - 2005, <i>Sanofi Synthelabo, France</i> , (International)
Efficacy & safety study of oral direct thrombin inhibitor H376/95 compared with dose adjusted warfarin in the prevention of stroke & systemic events in patients with atrial fibrillation (SPORTIFF III), Co-Investigator, 2001 - 2003, <i>Astra-Zeneca Pharmaceuticals</i> , (International)
VITATOPS:A Study of Vitamins to Prevent Stroke, Principal Investigator(PI), 2000 - 2009, <i>Australian NHMRC &amp; Royal Perth Hospital</i> , (International)
Homocysteine in Acute Stroke, Principal Investigator(PI), 2000 - 2000, <i>Abbott Diagnostics</i> , (National)

#### CONSULTATION PROJECT/CONSULTANCY

(Project title), (Role), (From)-(Until), (Organisation).

Diabetic Peripheral Neuropathic Pain Advisory Board, 2010-2010, Eli Lilly Asia
National Coordinator Servier Pharmaceuticals PERFORM International Clinical trial, 2006-2006, Servier Pharmaceuticals
National Coordinator (Malaysia) Vitamins to Prevent Stroke Study(VITATOPS), 2005-2005, The Australian NHMRC & Royal Perth Hospital
Visiting Consultant Neurologist,, 2001-2001, Queen Elizabeth Hospital, Kota Kinabalu, Sabah

#### AWARDS AND RECOGNITIONS

(Name of Award), (Awarding Institution), (Year Awarded), (Level).

Certificate of Excellent Service, University Malaya, 2012, (University)
Sijil Perkhidmatan Cemerlang 2011, University Malaya, 2012, (University)
Certificate of Excellent Service, University Malaya, 2008, (University)
The Lancet Asia Medical Forum 2008 Poster Winner & Certificate of Merit Title: Micro-Rnas as Potential Biomarkers for Cause, Diagnosis and Prognosis of Cerebral Ischaemic Stroke Ks Tan, a Arumugam, Cw Wang, Sc Chai, J Kandiah, The Lancet, 2008, (International)
Merdeka Award, Petronas, Exxon Mobil, Shell, 2008, (National)
Sijil Perkhidmatan Cemerlang (Excellent Service Certificate), University of Malaya, 2007, (University)
Tun Mahatir Award (as Part of Faculty of Medicine, University of Malaya), Academy of Science, Malaysia, 2006, (National)

Fulbright Scholarship Award, Fulbright Foundation, 2002, (International)

## PRESENTATIONS

(Title), (Event), (Date Presented), (Organiser), (Level).

### PLEANARY/KEYNOTE SPEAKER

Antiplatelet and antithrombotic therapy in ischaemic stroke , ASEAN NEUROLOGICAL ASSOCIATION CONFERENCE, Berjaya Times Square, Kuala Lumpur, 2009, 2009-04-03 to , Asean Neurological Association and Malaysian Society of Neurosciences, (International)

Management of Recurrent Stroke , 9th ASEAN Neurological Association , 2011-11-03 to 2011-11-03, ASEAN Neurological Association & Indonesian Neurological Society , (International)

### INVITED SEMINAR

Optimizing Anti-platelet therapy, Seminars in Atherothrombosis;CME for Ministry of Health, 2005-12-06 to 2005-12-06, Ministry of Health, Malaysia, (National)

Current Status of Acute Ischaemic Stroke Management in Malaysia, National Thrombolysis Forum , 2014-04-13 to 2014-04-13, Persatuan Neurosains Malaysia Stroke Council & Boehringer, (National)

### INVITED SPEAKER

Applications of Transcranial Doppler Ultrasound, Precongress Neurosonology Workshop in 11th Asian Oceanic Congress of Neurology, to 2004-11-23, Asia Oceania Association of Neurology, (International)

Neurological Complications of Hypertension, Malaysian Society of Hypertension 2nd Annual Scientific Meeting, 2005-01-11 to 2005-01-11, Malaysian Society of Hypertension, (National)

Stroke Prevention in Malaysia, 3rd.Asia-Pacific Conference on Stroke , 2006-03-12 to 2006-03-15, Asia Pacific Stroke Organization , (International)

Acute Management of Stroke; Investigations in Acute Stroke, ASEAN Neurological Association Stroke Symposium 2006, 2006-03-25 to 2006-03-27, ASEAN Neurological Association Stroke Council, (International)

Transcranial Doppler & Vasomotor Reactivity , Bangkok Neurosonology & Stroke Conference 2006 , 2006-10-11 to 2006-10-11, Prasop Ratanakorn Foundation, Thailand, (International)

Stroke Management Guidelines Lecture, Malaysian Medical Association Sabah CME Lecture 2010, 2006-12-05 to 2006-12-05, Malaysian Medical Association, Kota Kinabalu, Sabah Branch., (National)

Young Stroke in Asia , 4TH ASIA PACIFIC CONFERENCE AGAINST STROKE, New Delhi, India 2007, 2007-03-17 to , Mehndiratta MM, Department of Neurology, G. B. Pant Hospital, New Delhi 110002, India., (International)

Transcranial Doppler Principles, 4th Asia Pacific Conference Against Stroke, 2007-03-17 to 2007-03-17, Asia Pacific Stroke Organization, (International)

Secondary Prevention in Ischaemic Stroke, ASEAN Neurological Association-Laos Stroke Symposium , 2007-09-28 to , ASEAN Neurological Association & Laos Internal Medicine Board, (International)

Uncommon Causes of Stroke & Borderzone Infarctions, Malaysian Society of Neurosciences Annual General Meeting 2008, 2008-06-28 to , Malaysian Society of Neurosciences, (National)

Management of Acute Stroke , Asian Stroke Advisory Panel Symposium, Hanoi Daewoo Hotel, Vietnam,2008, 2008-12-06 to , Asian Stroke Advisory Panel, (International)

Stem cell therapy in stroke & neurological diseases, Clinical Research Conference 2010, Penang, 2010-04-16 to 2010-04-16, Clinical Research Centre, Hospital Pulau Pinang, (National)

Update in Management of Stroke, Perak Stroke Update 2010, 2010-11-19 to 2010-11-19, Jabatan Perubatan, Hospital Taiping, Perak

Stroke, Seminar Neurorehabilitation , 2010-11-22 to 2010-11-22, Pentadbiran Kejururawatan, Pusat Perubatan Universiti Malaya, (University)
Stroke Prevention Primary and Secondary , 2011 Malaysian Clinical Practice Guidelines on Ischaemic Stroke Launch in conjunction with World Stroke Day , 2011-10-29 to 2011-10-29, Malaysian Society of Neurosciences Stroke Chapter, (National)
Subarachnoid Haemorrhage & Ultrasound Physics, ASEAN Neurological Association Neurosonology Pre-Congress Review Workshop 2011, 2011-11-02 to 2011-11-02, ASEAN Neurological Association & Indonesia Neurological Association, (International)
Young Stroke (Uncommon Causes of Stroke), Asia Pacific Stroke Conference 2013, 2013-08-30 to 2013-09-01, Hong Kong Stroke Society and Asia Pacific Stroke Organization, (International)
Cerebrovascular Anatomy and Ultrasound Physics, Neurosonology Pre-conference Workshop, 2013-08-30 to 2013-08-30, Hong Kong Stroke Society, (International)
Cardiac causes of stroke: how hard do you look? , 10th ASNA Biennial Convention, 2013-10-18 to 2013-10-20, ASEAN Neurological Association, (International)
TCD Anatomy, Physiology and Physics, 10th ASNA Biennial Convention in Neurology, 2013-10-18 to 2013-10-20, ASEAN Neurological Association, (International)
Anti-platelet Therapy; rationalizing antiplatelet therapy , Malaysian Society of Neurosciences Annual Scientific Meeting 2014 , 2014-06-20 to 2014-06-22, Persatuan Neurosains Malaysia, (National)
Intravenous Thrombolysis in Acute Ischaemic Stroke, 3rd Scientific Meeting Updates in Neurology: Workshop in Advanced Cerebrovascular Diseases & Acute Revascularization, 2016-02-25 to 2016-02-28, National Brain Institute, Jakarta, Indonesia, (International)
Stroke Epidemiology in South East Asia, Asia Oceania Congress of Neurology, 2016-08-18 to 2016-08-21, Asia Oceania Association of Neurology & Malaysian Society of Neurosciences, (International)
Novel Risk Factors: Do they make a difference? / Low dose versus standard dose rt-PA in acute ischaemic stroke, 16th Singapore Stroke Conference 2016, 2016-10-06 to 2016-10-08, SingHealthDuke-NUS Academic Medical Centre, Singapore, (International)
Ensuring Stroke Unit Access in low resource settings, 10th World Stroke Congress, 2016-10-26 to 2016-10-29, World Stroke Organization, Indian, (International)
Blood Biomarkers in Stroke: Current Status and looking forward, 1st Asia Pacific Stroke Forum and 2016 Annual Meeting of Taiwan Stroke Society, 2016-11-12 to 2016-11-13, Taiwan Stroke Society, (International)

#### **EVENT ORGANISER**

Workshop in Transcranial Doppler , 4th Biennial Convention ASEAN Neurological Association, 2001-03-09 to 2001-03-11, Malaysian Society of Neurosciences & ASEAN Neurological Association , (International)

Clinical Applications of Transcranial Doppler Ultrasound, Pre-Conference Workshop in Transcranial Doppler, Malaysian Society of Neurosciences, Annual Scientific Meeting 2004, 2004-06-03 to 2004-06-03, Malaysian Society of Neurosciences, (National)

Scientific and Organizing Chairman, Malaysian Society of Neurosciences Annual Scientific Meeting 2010, 2010-05-21 to 2010-05-23, (National)

#### **POSTER**

Tan KS, Tan CT, Zamri MR, Madihi MEM, Abdul Hamid SA, Tai LY. Survey of cultural and public perceptions on the precipitants and relieving measures in headaches within the Klang Valley, Malaysia. *Neurol J South East Asia* June 2001;6:65, ASEAN Neurological Association Congress, 2001, 2001-05-01 to , (International)

Chong HT, Tan CT, Goh KJ, Tan KS, Chew NK, Vimalan R, Loh YL, Thayaparan T. Diabetes Mellitus and Acute Nipah encephalitis. *Neurol J South East Asia* June 2001;6:45, ASEAN Neurological Association Congress 2001, 2001-05-01 to , (International)

Random total homocysteine sampling in patients with enzyme inducing antiepileptic drugs., ASEAN Neurological Association Congress 2001, 2001-11-01 to , ASEAN Neurological Association , (International)

Goh KJ, Chew NK, Tan KS, Chong HT, Vimalan R, Tan CT. Carpal Tunnel Syndrome: Correlation between Clinical Symptoms and Severity and Electrophysiological Findings. *Journal of the Neurological Sciences* 2002; 199 (Suppl 1): S42 (ISI-Cited Publication), International Federation of Clinical

Neurophysiology Meeting, 2002-04-01 to , International Federation of Clinical Neurophysiology, The Neurological Society of Thailand. , (International)

Prevalence of Genetic Polymorphisms for 5,10-methylenetetrahydrofolate reductase(MTHFR)gene and insertion/deletion (I/D) of the angiotensin converting enzyme (ACE) gene in University of Malaya Medical Centre ischaemic stroke population, International Conference on Health Sciences 2005, 2005-05-06 to 2005-05-08, (University)

Expression in Ischemic Young Stroke Patients: A Potential Biomarker for cardioembolic & Atherothrombotic Ischaemic Strokes, OzBio Combined Conference, 2010-10-01 to , (International)

MicroRNAs as biomarkers in stroke pathogenesis, European Federation of Neurological Societies, 2010-10-01 to

#### **PRESENTER**

Epidemiological Features of Nipah virus encephalitis, Malaysian Society of Neurosciences Annual Scientific Meeting 1999, 1999-05-21 to 1999-05-23, Malaysian Society of Neurosciences, (National)

Tan KS, Tan CT, Goh KJ. Persistently Low CSF glucose in a case of cured cryptococcal meningitis. Neurol J South East Asia June 2001;6:52, ASEAN Neurological Association Congress 2001, 2001-05-01 to , ASEAN Neurological Association , (International)

Tan KS, Amudha K, Tan CT, Lang CC. Prevalence of Peripheral Vascular Disease in patients with Ischaemic Strokes. Hong Kong Medical Journal; Dec 2001;7(4):30, 2nd World Congress of Chinese Neurologists, 2001-05-01 to , (International)

Functional Status in patients with stroke thrombolysis in a tertiary hospital in Malaysia., Asia Pacific Stroke Conference, Kuala Lumpur 2015, 2015-12-01 to , (International)

MicroRNAs regulating CD46 and their relevance in stroke, Cerebrovascular Disease Journal Supplement 2015 for Asia Pacific Stroke Conference, Kuala Lumpur 2015, 2015-12-01 to

#### **OTHERS**

Microembolic Signal Detection, Workshop in TCD Emboli Detection , 2005-02-28 to 2005-02-28, Chinese University of Hong Kong, Hong Kong SAR, (International)

Carotid Ultrasound Workshop at University of Malaya Medical Centre, Kuala Lumpur, Carotid Ultrasound Workshop , 2015-03-03 to 2015-03-03, KS Tan, MLS Tai, Letchumy Praba, (International)

Guest Editor, Cerebrovascular Disease Journal Supplement, Asia Pacific Stroke Conference 2015, Kuala Lumpur, Malaysia, 2015-10-02 to 2015-10-04, Asia Pacific Stroke Organization, (International)

#### **EXPERT/TECHNICAL CONTRIBUTIONS**

(Activity), (Organisation), (Role), (From)-(Until), (Level).

Guest Editor, Cerebrovascular Disease Supplement, Cerebrovascular Disease Journal & Asia Pacific Stroke Organization, Committee Member, 2016-2016, (International)

Continuing Medical Education/Scientific Committee, Asia Pacific Stroke Organization, Chairman, 2015-2017, (International)

Steering Committee Vitamins to Prevent Stroke Trial(VITATOPS), Vitamins to Prevent Stroke Trial/Malaysian National Coordinator, Committee Member, 2000-2010, (International)

#### **EVALUATION ACTIVITIES**

(Description), (Evaluation Activity),(Year).

MMed Internal Examiner 2011-2, Masters Of Internal Medicine Examiner , ( )

Thesis "Dyskinesia in patients' with Parkinson's Disease" for Universiti Kebangsaan Malaysia, Thesis , (2010)

Cerebrovascular Disease(ad hoc reviewer), Article In Journal , (2009 - 2009)
MMed Part 2 Thesis Examiner(Universiti Kebangsaan Malaysia candidate):Prevalence of Aspirin Resistance in Stroke Patients by Dr Shahrul Azmin Md Rani, Mmed Examiner , (2009 - 2009)
International Journal of Stroke (ad hoc reviewer), Article In Journal , (2008 - 2008)
Reviewing of articles for journal including assessing content for form, substance and accuracy, Article In Journal , (2008)
Reviewer for Neurology Asia, Article In Journal , (2004)

### CONTRIBUTION TO SOCIETY

(Contribution To Society), (Level), (Start Date), (End Date).

Stroke Awareness Public Talks 2005(various locations), (Local), 23/05/2005 until 31/12/2005
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### SUPERVISION

#### POST GRADUATE STUDENT

(Name of Degree), (Name of Candidates), (Title of Thesis), (Academic Session)

<b>Ongoing</b>
Master Degree, Yong Fung Lin, MicroRNA in acute ischaemic stroke, 2010/2011
Master Degree, Dr Umami Affah Bt Mahmad, Overall Supervisor, 2010/2011
Master Degree, Dr Nur Adila Bt Anuar, Overall Clinical Supervisor, 2010/2011
Master Degree, Dennis Gan Chye Seng, MicroRNA in Ischaemic Stroke, 2009/2010

<b>Completed</b>
Master Degree, Leila Rahnama, The Intercellular adhesion molecule-1 and microRNA 126 profiling of Malaysian young stroke patients, 2011/2012
Master Degree, Dr Elsa Hannifah, Homocysteine and ACE gene polymorphisms in ischaemic stroke patients, 2009/2010
Master Degree, Dr Cheah Tien Eang, Masters of Medicine Overall Clinical Supervisor, 2005/2006
Master Degree, Dr Ng Kok Peng, Masters of Medicine; Overall Clinical Supervisor (1999-2003), 1999/2000

### TEACHING

(Course Title), (Academic Session), (No of Student), (No of Contact Hours).

<b>FIRST DEGREE</b>
Clinical Medicine Phase 3a & 3b , 2009/2010(1,2,3), 180, 820
Clinical Medicine phase 3a & 3b, 2008/2009(1,2,3), 180, 820
Clinical Medicine phase 3a & 3b, 2007/2008(1,2,3), 180, 820

